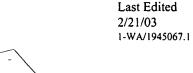
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App ndix of P nding Claim

4. A mammalian GDF-1 protein substantially free of proteins with which it is naturally non-covalently associated, wherein said protein is encoded by a nucleic acid that hybridizes under conditions of 65°C and 1M sodium chloride to DNA having the nucleotide sequence as defined in Figure 2 or Figure 11A or 11B and remains bound when subjected to washing at 68°C and 0.3 M sodium chloride/ 30 mM sodium citrate (2X SSC).

- 5. The protein according to claim 4 which is unglycosylated.
- 6. The protein according to claim 4 wherein said mammal is a mouse, hamster or human.
- 7. The protein according to claim 4 wherein said protein is chemically synthesized.
- 8. The protein according to claim 4 wherein said GDF-1 protein has a GDF-1 amino acid sequence as defined in Figure 11A or 11B.
- 9. A recombinantly produced GDF- protein having the GDF-1 amino acid sequence given in Figure 2, 11A or 11B.
 - 10. The protein according to claim 9 wherein said protein is unglycosylated.
- 22. The protein according to claim 4 wherein said GDF-1 protein has a molecular weight of 41K or 38K as determined by SDS-PAGE.
- 23. The protein according to claim 9 wherein said GDF-1 protein has a molecular weight of 41K or 38K as determined by SDS-PAGE.



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24. A process for purification of GDF-1 protein comprising expressing GDF-1 protein in a mammalian cell line, said GDF-1 protein being secreted into the medium, and

isolating said GDF-1 protein from said medium to obtain a product which is substantially

free of protein with which it is non-covalently associated, wherein said protein is encoded

by a nucleic acid that hybridizes under conditions of 65°C and 1M sodium chloride to

DNA having the nucleotide sequence as defined in Figure 2 or Figure 11A or 11B and

remains bound when subjected to washing at 68°C and 0.3 M sodium chloride/ 30 mM

sodium citrate (2X SSC).

25. The process according to claim 24 wherein said GDF-1 protein is

unglycosylated.

26. The process according to claim 24 wherein said GDF-1 protein has a

GDF-1 amino acid sequence as shown in Figure 2.

27. The process according to claim 24 wherein said GDF-1 protein has a

GDF-1 amino acid sequence as shown in figure 11A or 11B.

28. The process according to claim 24 wherein said GDF-1 protein is encoded

by a human nucleotide sequence.

29. The process according to claim 24 wherein said GDF-1 protein is encoded

by a mouse nucleotide sequence.

30. The process according to claim 24 wherein said GDF-1 protein has a

molecular weight of 41K or 38K as determined by SDS-PAGE.

31. The protein according to claim 4 wherein said GDF-1 protein has a GDF-1

amino acid sequence as defined in Figure 2.

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32. The protein according to claim 9 wherein said protein has the GDF-1

amino acid sequence given in Figure 2.

The protein according to claim 9 wherein said protein has the GDF-1 33.

amino acid sequence given in figure 11A or 11B.